

7250 GC/Q-TOF

Технические характеристики

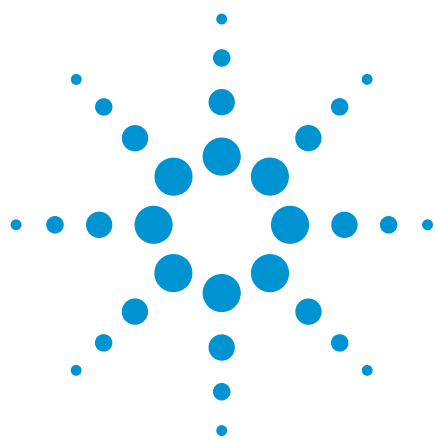
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Agilent 7250 GC/Q-TOF

Data Sheet



The Agilent 7250 GC/Q-TOF with Agilent MassHunter Software offers outstanding sensitivity, selectivity, and mass spectral information. Low energy Electron Ionization (EI) provides accessible molecular ion information for compound identification and structure elucidation workflows. High resolution and accurate mass data allow identification of unknown compounds in the most complex matrix. MS/MS data from sensitive product ion spectra can provide structural information, further increase selectivity, and can remove matrix interferences. Acquisition rates up to 50 Hz allow even the narrowest chromatographic peaks to be characterized with full spectrum data. Fast acquisition speed, accurate mass measurement, and SureMass signal processing facilitate deconvolution of coeluting GC peaks that are inseparable by unit-resolution MS. The 7250 GC/Q-TOF must be combined with the high-performance Agilent 7890B Gas Chromatograph.

Parameter	Specification
Ionization mode (standard)	Conventional electron ionization (EI) at 70 eV
Ionization mode (standard)	Low energy EI
Electron energy	Settable, 5-200 eV
Ion source material	Noncoated, proprietary inert source
Ion source temperature	Settable, 100 to 350 °C
Ion source access	Quick Vent with nitrogen purge
Precursor ion mass filter	Proprietary monolithic hyperbolic gold-coated quartz quadrupole
Quadrupole Isolation mass range	20 to 1,050 m/z
Quadrupole resolution (FWHH)	Selectable, 0.7 to 3.0 Da using default tune Settable, 0.4 to 4.0 Da using custom tune
Quadrupole mass axis stability	< ± 0.10 Da over 24 hours (10–40 °C)
Quadrupole temperature	100 to 200 °C
Collision cell	Linear hexapole
Collision cell gas	4:1 Helium:Nitrogen
Collision energy	Settable up to 60 eV
Ion extraction and mirror	Two-stage second-order corrected
TOF flight path length	3 m
Detector	Microchannel plate/scintillator/PMT; ADC electronics
TOF detector sampling rate	ADC - 160 Gbits/sec
Dynamic range (electronic)	>10 ⁵
Tuning	SWARM Autotune for GC/Q-TOF; Manual tune
Pumping system	Four stages; split from turbomolecular pump 200/200 L/sec (N ₂) and two 300 L/sec (N ₂) turbomolecular pumps
Software	Agilent MassHunter Acquisition, Data Analysis (Qualitative and Quantitative) and Reporting
Single point of control	Data system capable of full instrument control; including Agilent 7890B GC and Agilent 7250 GC/Q-TOF
Simultaneous MS and GC	Collect two GC detector signals while acquiring MS data

Gas Chromatograph (Agilent 7890B GC)

For more specifications on GCs, refer to the GC Data Sheet.

Parameter	Specification
Injection port	Split/splitless, Multimode inlet, PTV, and others
Autosampler	Agilent 7693 ALS, Agilent 7650, Agilent 7683 ALS, CombiPAL, PAL3; Agilent 7697A Headspace Sampler
Oven temperature	Ambient +4 to 450 °C
Oven ramps/plateaus	20/21; negative ramps are allowed.
Electronic pneumatic control (EPC)	Auto pressure regulation for split/splitless, septum purge
Carrier gas control modes	Constant pressure and flow modes; pressure and flow programmable
Pneumatic splitter	Capillary Flow Technology devices for effluent splitting, backflushing, and column switching
Backflush ready	3-Channel CC/EPC Module

Parameter	Measure	Specification
Acquisition rate	Spectra / second (Hz)	1–50 Hz Independent of mass resolution
Mass range	Recordable mass range (inclusive)	Up to 20–3,000 m/z Independent of acquisition rate
EI Instrument detection limit (IDL)	Statistically derived at 99 % confidence level from the area precision (<8 % RSD) of eight sequential splitless injections (ALS 7693A ¹) of 1 μ L, 100 fg/ μ L OFN ² , at m/z 271.9867	IDL <60 fg OFN ²
TOF mass resolution	Spectral peak width at half height; splitless injection of 1 pg OFN ² at m/z 271.9867	>25,000 at m/z 271.9867 Independent of acquisition rate
TOF mass accuracy	Average mass error of eight sequential injections of 1 pg OFN ² at m/z 271.9867	<2 ppm RMS

¹Area precision specification is demonstrated only if autosampler is part of system (8% for ALS)

²Octofluoronaphthalene (OFN)

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